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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Minoru Kinaka

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EXAMINER

CHIO, TAT CHI

ART UNIT

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2621

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/552,915	Applicant(s) KINAKA, MINORU	
	Examiner TAT CHIO	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 February 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 4-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4 and 6 is/are rejected.
- 7) ☒ Claim(s) 5 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/11/2010 has been entered.

Response to Arguments

2. Applicant's arguments filed 2/11/2010 have been fully considered but they are not persuasive.

Applicant argues that the combination of Miura and Kikuchi does not teach that the control part calculates a recording time of a video and audio signal of the analog recording medium based on a control signal detected by the control signal detecting part from the analog recording medium.

In response, the examiner respectfully disagrees. Kikuchi teaches the remaining amount of the disc is calculated. If the remaining amount is equal or larger than the predetermined value, recording proceeds in the high quality mode. On the other hand, if the calculated remaining amount is smaller than the predetermined value, the recording mode is changed from MPEG2 to MPEG1 in column 54 line 51 to column 55 line 12 and Fig. 42-45.

Applicant argues that the combination of Miura and Kikuchi does not teach that the control part determines a bit rate during recording of the video and audio signal by the recording part so that all the video and audio signal corresponding to the calculated time is recorded in the free space of the digital recording medium obtained by the free space obtaining part.

In response, the examiner respectfully disagrees. Kikuchi teaches that when the remaining amount of recording disc becomes small, the user is warned that he/she should either reduce recording bit rate or exchange disc with a new one. After the recording bit rate is reduced, the recording can be continued in Fig. 58 and Fig. 59.

Applicant argues that the combination of Miura and Kikuchi does not teach that the reproduction control signals are recorded at an equal interval in portions where analog video and audio information is recorded.

In response, the examiner respectfully disagrees. Kikuchi teaches that the navigation packs (reproduction control signals) are 2048 bytes in size in Fig. 11.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miura et al. (US 2002/0183873 A1) in view of Kikuchi et al. (US 6,574,422 B1).

Consider claim 1, Miura teaches an information recording and reproducing apparatus including a reproducing part for reproducing a audio signal from an analog recording medium, and a recording part for recording and audio signal onto a digital recording medium, comprising: a control signal detecting part for detecting a control signal recorded on the analog recording medium together with the audio signal ([0123]); and a control part for controlling operations of the reproducing part, the recording part, and the control signal detecting part (39 of Fig. 3), wherein, when a dubbing instruction is input, starts a dubbing operation of recording the video and audio signal reproduced by the reproducing part onto the digital recording medium by the recording part in accordance with the bit rate (Fig. 3 and Fig. 4), and during the dubbing operation, when the control signal detecting part detects a non-recorded region where the control signal is not recorded on the analog recording medium ([0061] and [0062]).

However, the information recording and reproducing apparatus that Miura taught only deals with audio. Miura does not explicitly teach the information recording and reproducing apparatus that has the operation for dubbing video, and the control part instructs the recording part to temporarily stop recording onto the digital recording medium while allowing the reproducing part to continue the reproducing operation, the control part calculates a recording time of a video and audio signal of the analog recording medium based on a control signal detected by the control signal detecting part from the analog recording medium, determines a bit rate during recording of the

Art Unit: 2621

video and audio signal by the recording part so that all the video and audio signal corresponding to the calculated time is recorded in the free space of the digital recording medium obtained by the free space obtaining part, and the reproduction control signals are recorded at an equal interval in portions where analog video and audio information is recorded.

Kikuchi teaches an information recording and reproducing apparatus that has the operation for dubbing video and audio (col. 54, lines 5-15), and the control part instructs the recording part to temporarily stop recording onto the digital recording medium while allowing the reproducing part to continue the reproducing operation (Fig. 58 and Fig. 60), a free space obtaining part for obtaining a free space of the digital recording medium (Fig. 42), the control part calculates a recording time of a video and audio signal of the analog recording medium based on a control signal detected by the control signal detecting part from the analog recording medium (col. 54, line 51-col. 55, line 12 and Fig. 42-45), determines a bit rate during recording of the video and audio signal by the recording part so that all the video and audio signal corresponding to the calculated time is recorded in the free space of the digital recording medium obtained by the free space obtaining part (Fig. 58 and 59), and the reproduction control signals are recorded at an equal interval in portions where analog video and audio information is recorded (Fig. 11). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the technique of dubbing video taught by Kikuchi into the device taught by Miura to provide user a greater degree of freedom in dubbing and editing.

Consider claim 2, Miura teaches the information recording and reproducing apparatus, wherein, during the dubbing operation, when the control signal detecting part detects the control signal again on the analog recording medium after the recording part temporarily stops recording onto the digital recording medium, the control part instructs the recording part to resume recording onto the digital recording medium ([0061], [0062], and [0123], when the device detects error, it stops the dubbing process. The device tries the dubbing operation again after it stops. When it tries again, it detects the control signal of the data again).

Consider claims 6, Kikuchi teaches the information recording and reproducing apparatus, further comprising a user interface, wherein, in a case where a recordable time when information is recorded at a lowest bit rate in the free space of the digital recording medium is shorter than a recording time of the video and audio signal recorded on the analog recording medium, the control part performs at least one of warning display to the user interface and suspension of the dubbing operation (Fig. 47).

3. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miura et al. (US 2002/0183873 A1) in view of Kikuchi et al. (US 6,574,422 B1) as applied to claim 3 above, and further in view of Kikuchi et al. (5,870,523).

Consider claim 4, Miura and Kikuchi teach all the limitations in claim 3 but does not explicitly teach the information recording and reproducing apparatus, using a tape-shaped medium as the analog recording medium, comprising a control head for reading a control signal from the tape-shaped medium, wherein, when a dubbing instruction is input, the control part first-forwards the tape-shaped medium to a trailing edge, and

Art Unit: 2621

thereafter, while the tape-shaped medium is rewound to a leading edge, the control head obtains a control signal recorded on the tape-shaped medium.

Kikuchi (5,870,523) teaches the information recording and reproducing apparatus, using a tape-shaped medium as the analog recording medium, comprising a control head for reading a control signal from the tape-shaped medium, wherein, when a dubbing instruction is input, the control part first-forwards the tape-shaped medium to a trailing edge, and thereafter, while the tape-shaped medium is rewound to a leading edge, the control head obtains a control signal recorded on the tape-shaped medium (claim 21). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the technique of obtaining signal while undergoing rewinding to enhance the efficiency of the apparatus.

Allowable Subject Matter

4. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAT CHIO whose telephone number is (571)272-9563. The examiner can normally be reached on Monday - Thursday 9:00 AM-5:00 PM EST.

Art Unit: 2621

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Q. Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. C. C./
Examiner, Art Unit 2621

/Thai Tran/
Supervisory Patent Examiner, Art Unit 2621